
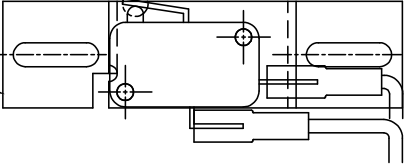
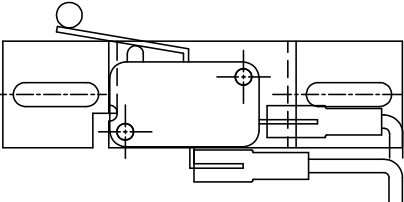

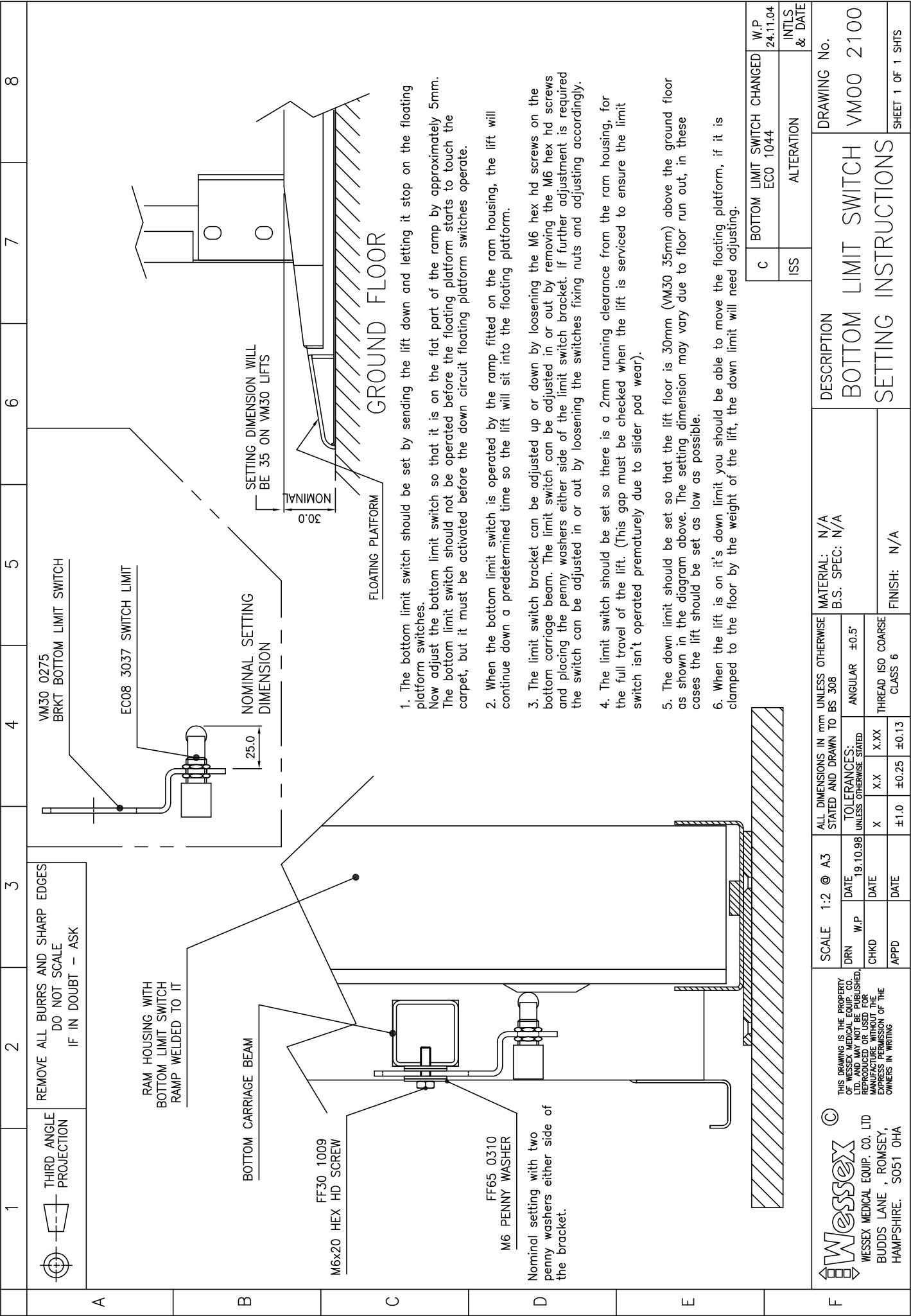


	1	2	3	4	5	6	7	8
	 THIRD ANGLE PROJECTION	REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE IF IN DOUBT - ASK						
A								
B								
C		 SWITCH BRACKET VM10 0420 ISSUE 'D' ITEM 22						
D								
E		SWITCHES MUST BE ASSEMBLED TO BRACKET AS SHOWN THIS IS SAFETY CRITICAL						
F	 WESSEX MEDICAL EQUIP. CO. LTD BUDDS LANE, ROMSEY, HAMPSHIRE. SO51 0HA			SCALE 1:1 @ A3	ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED AND DRAWN TO BS 308	MATERIAL: N/A B.S. SPEC: N/A	DESCRIPTION BRACKET SWITCH ASSY	DRAWING No. VM00 2080
			DRN DATE WP 19.10.99	TOLERANCES: UNLESS OTHERWISE STATED X X.X X.XX	ANGULAR ±0.5°	ISS ALTERATION	REFER TO SHEET 2 ECO 0819	WP 24.8.01 INTLS & DATE
			CHKO DATE	±1.0 ±0.25 ±0.13	THREAD ISO COARSE CLASS 6			
			APPD DATE					SHEET 2 OF 2 SHTS



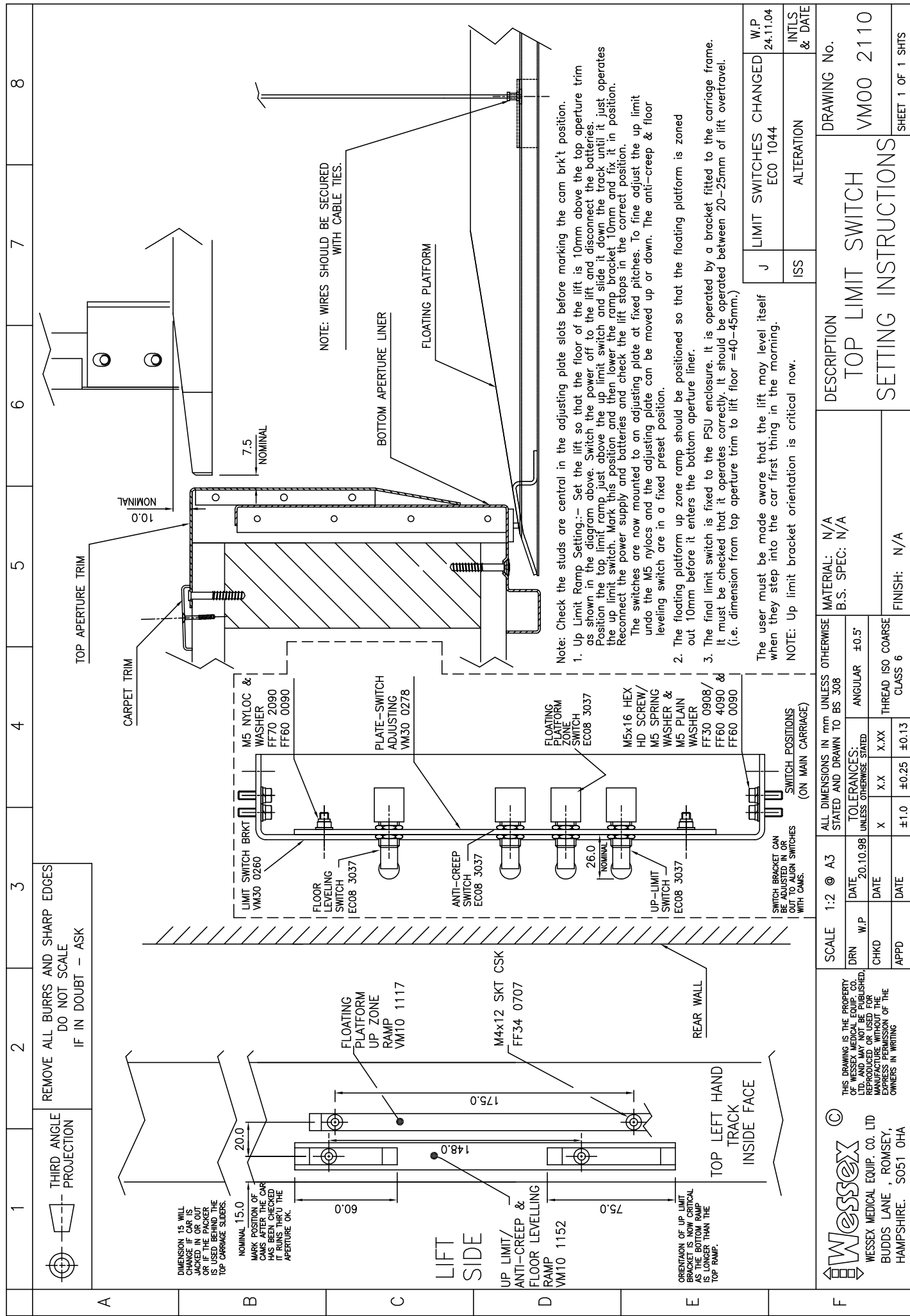
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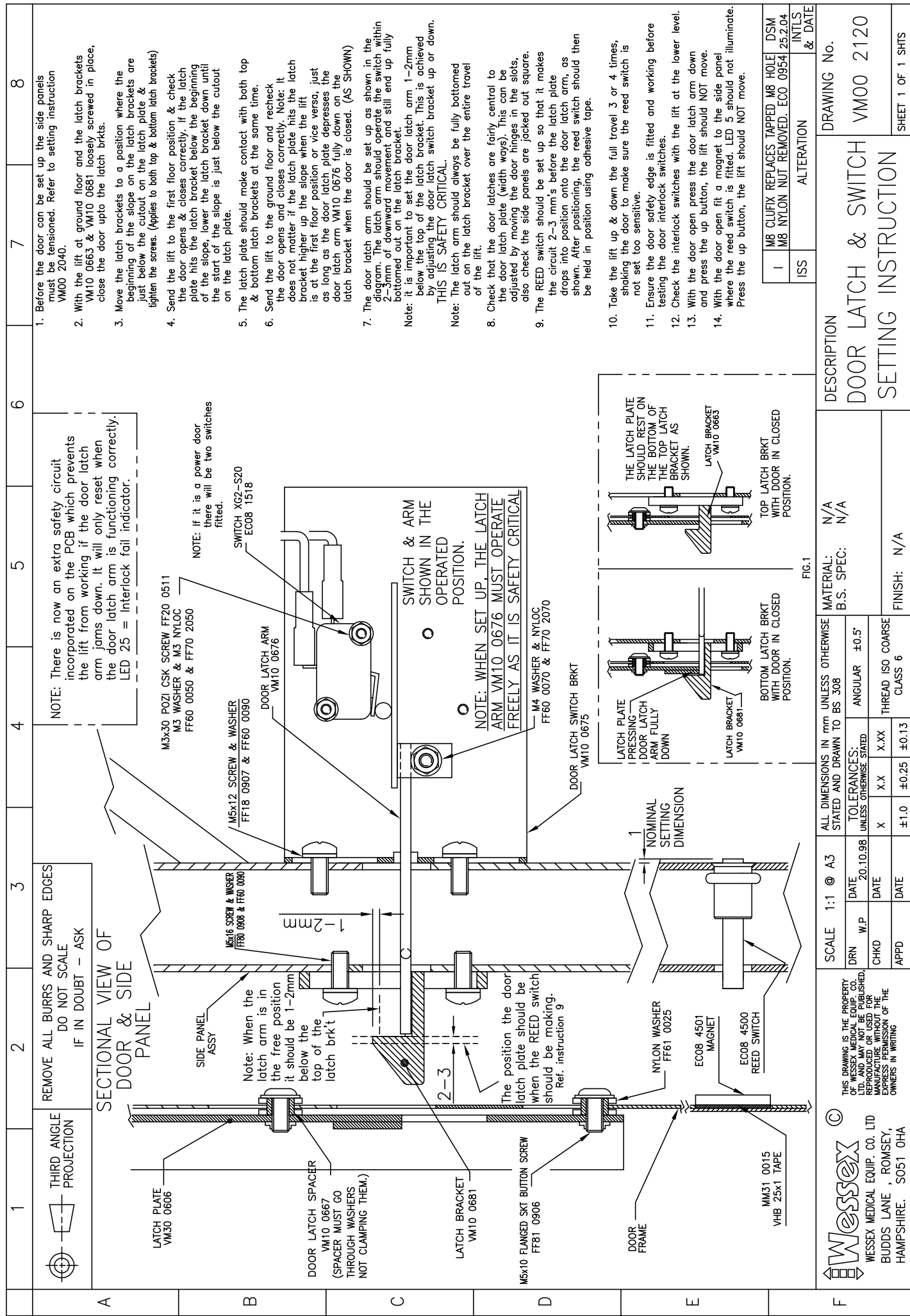


SCALE 1:2 @ A3				ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED AND DRAWN TO BS 308			
DRN	W.P	DATE	19.10.98	TOLERANCES: UNLESS OTHERWISE STATED		ANGULAR ±0.5°	
CHKD		DATE		X	X.X	X.XX	THREAD ISO COARSE
APPD		DATE		±1.0	±0.25	±0.13	CLASS 6

MATERIAL: N/A B.S. SPEC: N/A	FINISH: N/A
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DESCRIPTION BOTTOM LIMIT SWITCH SETTING INSTRUCTIONS	DRAWING No. VM00 2100
SHEET 1 OF 1 SHTS	





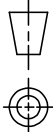
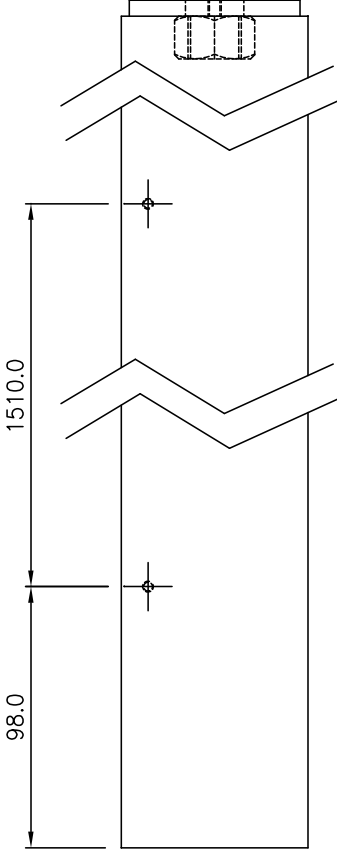
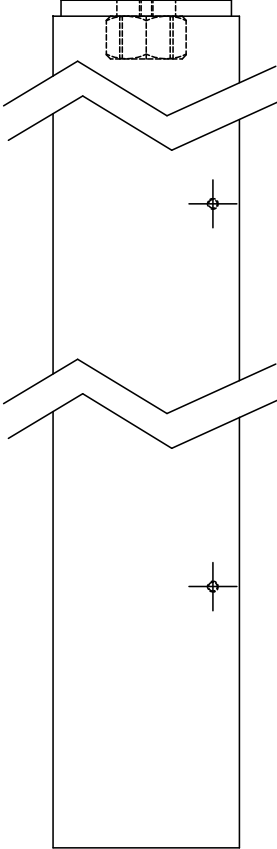
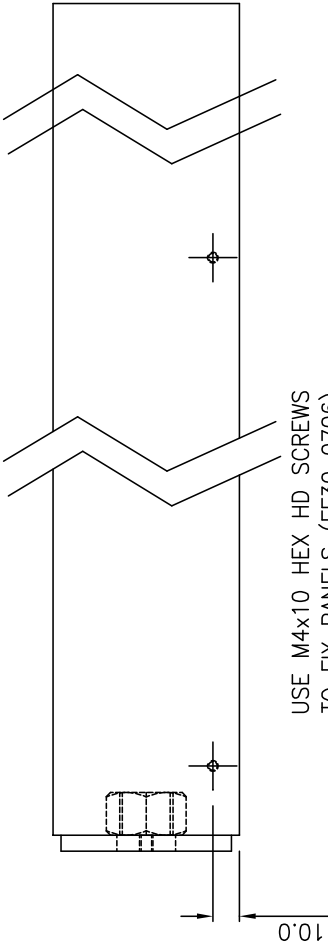

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D	VOLTAGE REGULATOR HAS REPLACED ADJUSTABLE RESISTOR & BOOST SWITCH ECO 1044	W.P. 10.11.04
ISS	ALTERATION	INTLS & DATE





[illegible]

	1	2	3	4	5	6	7	8
	 THIRD ANGLE PROJECTION		REMOVE ALL BURRS AND SHARP EDGES DO NOT SCALE IF IN DOUBT - ASK					
A								
B	 1510.0 98.0 TOP SET OF TRACKS AFTER THEY HAVE BEEN CUT TO LENGTH							
C								
D	 1510.0 98.0 BOTTOM SET OF TRACKS							
E	 1510.0 98.0 USE M4x10 HEX HD SCREWS TO FIX PANELS (FF30 0706) AS WELL AS THE DOUBLE SIDED TAPE.							
F	<div><div>THIS DRAWING IS THE PROPERTY OF WESSEX MEDICAL EQUIP. CO. LTD. AND MAY NOT BE PUBLISHED, REPRODUCED OR USED FOR MANUFACTURE WITHOUT THE EXPRESS PERMISSION OF THE OWNERS IN WRITING</div></div> <div>WESSEX MEDICAL EQUIP. CO. LTD BUDDS LANE , ROMSEY, HAMPSHIRE. SO51 0HA</div>							
			SCALE 1:2 @ A3	ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED AND DRAWN TO BS 308			MATERIAL: N/A B.STANDARDS: N/A	
			DRN	WP	DATE	5.12.00	TOLERANCES: UNLESS OTHERWISE STATED	
			CHKO		DATE		X	X.X
			APPD		DATE		±1.0	±0.25
							ANGULAR	±0.5°
							X.XX	THREAD ISO COARSE
								CLASS 6
			ISS			ALTERATION		
			A			ECO 0791		
			WP			14.12.00		
			INTLS			& DATE		
			DRAWING No.			VM00 2150		
			DESCRIPTION			FALSE WALL FIXING DETAILS		
			FINISH: N/A					
			SHEET 1 OF 1 SHTS					

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## SECTION 6

### Hydraulics

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# Hydraulic Section Contents

**Product:** VM Service Procedure  
**Document Ref:** VM00 5670  
**Description:** Hydraulic Section Contents

**Compiled by:** K.Farthing  
**Issue:** 2  
**Date:** 08 March 2007

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1. [Hydraulic Ram Change Procedure](#)
2. [Hydraulic Ram Bleed Procedure](#)
3. [Hydraulic Circuit Drawing](#)

# Hydraulic Ram Change Procedure

Product: VM Service Manual  
Document Ref: VM00 5680  
Description: Ram Change Procedure

Compiled by: K.Farthing  
Issue: 2  
Date: 08 March 2007

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## RAM CHANGE PROCEDURE

*REFER TO THE INSTALLATION / SERVICE REFERENCE FOLDER FOR SPECIFIC SETTING INSTRUCTIONS.*

**The following documents should be available and referred to whilst changing the ram:**

Top and Bottom Carriage Sliders Setting Instruction VM00 2030

Ram Housing Setting Instruction VM00 2020

Bleed Procedure for Lift

**Specialist Tools Required**

2 off bleed pipes

2 off plastic tubes (rollers) approx. 100mm dia, wall thickness 3mm + to move lift.

Absorbent cloths in case of fluid spillage.

**Warning** Be aware that trapping / shearing / lifting hazards will be prevalent during moving of the lift car and ram when partially dismantled. Also, familiarise yourself with our documents "Safety Whilst Working On The Lift" and "Safety And Hydraulic Systems". It is recommended that ram changes be carried out by at least 2 persons, one of whom is a competent Lift Engineer.

- 1.1 Remove rear panels of the lift.
- 1.2 Remove the extensions fitted to the rear LH and RH of the floating platform.
- 2.1 Remove the 2 off M5 screws that secure the left-hand side of the ram-housing upper to the structural beam. Slacken (but do not remove) the 1 off M5 screw holding the right-hand side of the ram housing upper to the structural beam.
- 2.2 Gently lower the ram-housing upper to the ground.
- 2.3 Remove the bottom limit switch cam from the inside face of the lower end of the LH track, it is advised to mark its position first.

**With the lift raised approx. 300mm above the ground floor.**

- 3.1 Pull floating platform down from the lift car.
- 3.2 Apply a small g-clamp (or similar) to each platform rope close to where the rope exits beneath the lift side frames (this will prevent the ropes retracting into the lift car).
- 3.3 Detach the floating platform from the lift by carefully cutting the cable ties from around each rope end ferrule and disconnecting the wire rope from its retainer in the platform.
- 3.4 Place the 2 off roller tubes width ways beneath the lift, one approx. 100mm from the front of the lift and one approx. 100mm from the rear of the lift.
- 3.5 Cautiously lower the lift onto the tubes.

**With the lift fully supported on the tubes.**

- 4.1 Slacken the M8 HEX. HD. Screws holding the slider stabiliser rear (VM30 0244, see drawing VM00 2030 sheet 2) and move the sliders inboard.
- 4.2 Remove the M8 HEX. HD. Screws holding the top slider brackets (VM30 0247, see drawing VM00 2030 sheet 1) and remove the brackets.
- 4.3 Remove the M6 screws and spacer holding the ram cover slide to the front of the ram. Lower the cover down.
- 4.4 Remove the M10 socket cap screw securing the ram head to the carriage, taking care not to lose the ram head swivel.
- 4.5 Lower the ram clear from the carriage by using the emergency lower valve.

# Hydraulic Ram Change Procedure

**Product:** VM Service Manual  
**Document Ref:** VM00 5680  
**Description:** Ram Change Procedure

**Compiled by:** K.Farthing  
**Issue:** 2  
**Date:** 08 March 2007

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- 4.6 Gently roll the lift car clear of the tracks; ensure that the trailing cable is not stretched, if necessary disconnect this from the lift car.
- 4.7 Slacken and then remove the ram height adjusters (remove 8 off M8 locknuts first) that hold the ram housing to the structural beam.
- 4.8 Remove the 8 off M8 x 16 HEX. HD screws (4 each side) from the sides of the ram housing.
- 4.9 Lower the ram housing fully and ensure that there is no hydraulic pressure left in the system.
- 5.0 Be prepared to contain any fluid spillage.
- 5.1 Disconnect the hydraulic supply hose from the base of the ram.
- 5.2 Remove the ram and ram housing to a clear area.
- 5.3 Remove and set aside, for re-use, the fittings from the base of the ram.
- 5.4 Fit a blanking plug to the base of the ram to prevent leakage during transportation.
- 5.5 Remove the ram from the housing.

## **Refitting of the replacement ram**

*Refitting is the reverse of the removal sequence; however, the following should be noted;*

- Use new Dowty Seals as a matter of routine.
- Bleed the ram before fitting the upper ram housing.
- Top up the fluid reservoir on completion.
- The ram can be extended to meet the carriage by careful use of the contactor within the PSU box.
- Refit the ram and housing by making specific reference to the ram-housing setting instruction (VM00 2020).
- It is imperative that the M10 socket cap screw securing the ram head to the carriage is refitted correctly.
- Refit the lift to the tracks with particular reference to the top and bottom carriage sliders setting instruction (VM00 2030).
- When refitting the floating platform use new cable ties around the rope ferrules.
- Ensure that the bottom limit switch cam is refitted and that the limit switches operate correctly, refer to setting instruction VM00 2100.

On completion check that all the lift safety circuits function correctly and that the lift is running smoothly.

# Hydraulic Ram Bleed Procedure

Product: VM Service Manual  
Document Ref: VM00 5690  
Description: Bleed Procedure

Compiled by: K.Farthing  
Issue: 2  
Date: 08 March 2007

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## Hydraulic Ram Bleed Procedure

REFER TO THE INSTALLATION / SERVICE REFERENCE FOLDER FOR SPECIFIC SETTING INSTRUCTIONS.

**WARNING** The utmost care must be taken as the lift will be moved with the rear panels removed and trapping / shearing hazards will be exposed.

The bleeding of the ram should be carried out with the car stopped at the lowest level. Prior to bleeding it is necessary to lower the ram-housing upper to expose the bleed nipples.

- 1.0 Remove the rear panels of the lift.
- 2.0 When the lift car and trap board are partially raised remove the 2 off M5 screws that secure the left-hand side of the ram-housing upper to the structural beam. Slacken (but do not remove) the 1 off M5 screw holding the right hand side of the ram housing upper to the structural beam.
- 3.0 Gently lower the ram- housing upper to the ground.
- 4.0 Cautiously lower the lift car to the ground.
- 5.0 From inside the car remove both bleed nipple dust caps.
- 6.0 Connect bleed hoses to both bleed nipples and secure using clips provided.
- 7.0 Immerse the other end of the bleed hoses in clean hydraulic fluid in a jar.
- 8.0 Start the pump. Raise the lift approx. 50mm. Fluid will pass through at low pressure into the jar and the car will lower. Watch for air bubbling in the jar.
- 9.0 Repeat the above until fluid clear of air passes into the jar.
- 10.0 Remove the bleed hoses and refit the nipple caps.
- 11.0 Refill the fluid reservoir.
- 12.0 Raise the lift approx. 200mm and ensure lift is not creeping down.
- 13.0 Refit the ram-housing upper to the structural beam.
- 14.0 Refit the rear panels to the lift.





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## SECTION 7

### Lubrication Schedule

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# Installation Instructions

**Product:** VM Range manufactured after Jan 99  
**Document Ref:** VM30 5010  
**Description:** Lubrication Schedule

**Compiled by:** K.Farthing  
**Issue:** 6  
**Date:** 08 March 2007

Item to be lubricated➔  Time of application↓	<b>TRAP BOARD PICK UP MECHANISM</b>	<b>GAS STRUT</b>	<b>SIDE SAFETY EDGE</b>	<b>DOOR SAFETY EDGE</b>	<b>REAR SAFETY EDGE</b>	<b>POWER DOOR GUIDE CHANNEL ASSEMBLY</b>
<b>PRODUCTION</b>	Apply grease to the plunger, tube and faces of the trap board socket	Grease plunger beneath spring, also guide welded to side panel	Refer to Drawing No. <a href="#">VM00 2050</a>	Refer to Drawing No. <a href="#">VM00 2060</a>	Refer to Drawing No. <a href="#">VM00 2070</a>	Apply grease to Guide channel. Refer to Drawing No. <a href="#">VM00 2130</a>
<b>INSTALLATION</b>						
<b>SERVICE</b>	Clean and reapply if necessary	Clean and reapply if necessary	Clean and reapply if necessary	Clean and reapply if necessary	Clean and reapply if necessary	Clean and reapply if necessary

## SUGGESTED LUBRICANTS

SPRAY LUBRICANT      Ambersil 40+ (CM31 1000), WD40, Loctite Repel or similar  
 GREASE                Lithium Grease EP2, Castrol LM Grease or equivalent  
 HYDRAULIC OIL      ISO 32 Hydraulic oil (MM31 5001)

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# Installation Instructions

**Product:** VM Range manufactured after Jan 99  
**Document Ref:** VM30 5010  
**Description:** Lubrication Schedule

**Compiled by:** K.Farthing  
**Issue:** 6  
**Date:** 08 March 2007

Item to be lubricated➔  Time of application↓	<b>FLOOR: ROLLER ASSEMBLY</b>	<b>DOOR HINGES</b>	<b>DOOR LINK ARM</b>	<b>DOOR LATCH &amp; KEY MECHANISM (VM10 0681 &amp; VM 0606)</b>	<b>RAM</b>	<b>DOOR FLAP</b>
<b>PRODUCTION</b>	Apply light coat of grease to pin before assembly	Apply Grease to hinge pivot point				Grease hinges
<b>INSTALLATION</b>			Apply grease to pivot rod before inserting into bracket on side panel	Apply thin film of grease to mechanism and ensure burr free.	Apply hydraulic oil to cylinder if required (dependent on supplier of ram)	
<b>SERVICE</b>	Clean and reapply if necessary		Clean and reapply if necessary	Clean and check for signs of burring remove if necessary, re-apply thin film of grease. (Report burring problem if present to engineering)		Clean and reapply if necessary

## SUGGESTED LUBRICANTS

SPRAY LUBRICANT      Ambersil 40+ (CM31 1000), WD40, Loctite Repel or similar  
 GREASE                  Lithium Grease EP2, Castrol LM Grease or equivalent  
 HYDRAULIC OIL        ISO 32 Hydraulic oil (MM31 5001)

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## SECTION 8

### Replacement Parts

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# VM Replacement Parts

**Product: VM Service Documents**  
**Document Ref: VM00 5700**  
**Description: Replacement Parts**

**Compiled by: K.Farthing**  
**Issue Number: 3**  
**Date: 08 March 2007**

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PART NUMBER	DESCRIPTION
	MAIN PCB (See specific PCB for part number)
EC08 1502	SWITCH MICRO BVMFYR
EC06 2010	INCANDESCENT BULB ( <b>Pre 7000 serial number</b> )
EC07 0006	FUSE 3.15A A/S LBC 20MM GLASS
EC07 0007	FUSE 5A A/S LBC 20MM GLASS
EC07 0017	FUSE 10A S/D LBC 20MM GLASS
EC07 0020	FUSE 10A HBC CERAMIC
EC08 1501	SWITCH MICRO BVM3FYR1
EC08 1504	SWITCH 2VCFQR1( <b>Pre 7000 serial number</b> )
EC08 1517	SWITCH MICRO VCFQ2
EC08 1518	SWITCH LIMIT XG2-S20
EC08 3003	SWITCH LIMIT BVM3FQ1
EC08 3028	SWITCH FINAL LIMIT KB5 EQ
EC08 3029	SWITCH VCFQR1 ( <b>Pre 7000 serial number</b> )
EC08 4500	REED SWITCH DOOR CLOSE LIMIT
EC08 4501	MAGNET REED SWITCH DOOR CLOSE LIMIT
EC08 4502	REED SWITCH TRAP ASSEMBLY
EC08 4503	MAGNET REED SWITCH TRAP ASSEMBLY
EC12 0014	BULB 24V 10W ( <b>Pre 7000 serial number</b> )
HC20 0200	DOWTY WASHER ¼ BSP
HC20 0300	DOWTY WASHER ⅜ BSP
HC23 0200	BANJO BOLT
HC23 0202	BANJO SWAGE FITTING
HC23 0203	ADAPTER ¼ BSP TO ⅜ BSP MALE
HC23 0204	ADAPTER 90° ELBOW
HC44 0200	ADAPTER ¼ BSP FEMALE
HC53 8002	BLEED NIPPLE
MC10 8022	SAVORY PUMP A/V MOUNT PART 1
MC10 8023	SAVORY PUMP A/V MOUNT PART 2
MM21 2000	RUBBER DOOR BUFFER SELF ADHESIVE
EC04 2011	SOLENOID SHOOT BOLT
EC04 2007	SOLENOID DOOR LATCH
HC00 1010	HYDRAULIC RAM. TRAVEL UP TO 3 METRES
HC00 1012	HYDRAULIC RAM. TRAVEL UP TO 3.5 METRES
MM31 0014	VELCRO PANEL PADS. SELF ADHESIVE
MM35 0031	GAS STRUT
PT04 0004	DOOR ACTUATOR
EC08 4504	REED SWITCH DOOR OPEN LIMIT( <b>Serial number 7000 onwards</b> )

# VM Replacement Parts

**Product: VM Service Documents**  
**Document Ref: VM00 5700**  
**Description: Replacement Parts**

**Compiled by: K.Farthing**  
**Issue Number: 3**  
**Date: 08 March 2007**

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PART NUMBER	DESCRIPTION
EC08 3037	SWITCH LIMIT/ANTI-CREEP/OVERTRAVEL <b>(Serial number 7000 onwards)</b>
EC103031	GROMET WHITE DOOR SAFETY EDGE AND LOWER CABLE COVER
EC12 0018	HALOGEN LAMP 24v 20w <b>(Serial number 7000 onwards)</b>
VMOP 1092	IN-CAR KEY SWITCH
MC04 1035	SPRING COMPRESSION. FLOATING PLATFORM VM30/50 ALSO ALL TRAPS
MC04 1050	SPRING COMPRESSION. FLOATING PLATFORM VM31/51/36/56
EC14 3005	BATTERY 12V 1.2AH <b>(Serial number 7000 onwards)</b>
MM35 0031	GAS STRUT
VM30 8046	LOOM TRAILING CABLE VM30 RANGE <b>(Serial number 7000 onwards)</b>
VM50 8004	LOOM TRAILING CABLE VM50 RANGE <b>(Serial number 7000 onwards)</b>
EC14 5006	TELEPHONE

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## SECTION 9

### Troubleshooting

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# Troubleshooting

Product: VM Service Documents  
Document Ref: VM00 5710  
Description: Troubleshooting

Compiled by: K.Farthing  
Issue Number: 2  
Date: 08 March 2007

Using the LED indicators on the circuit board it is usually possible to trace a fault down to a circuit quite quickly. The Descriptions below are intended as a guide only and should be used in conjunction with the relevant circuit and schematic diagrams.

## First Checks

If the stop and door interlock LED's are illuminated the lift should be ready to travel. **See Fig 1**

Use the table below to establish the LED status and fault indications if the lift will not run. The photographs below show the LED's and their normal running condition.

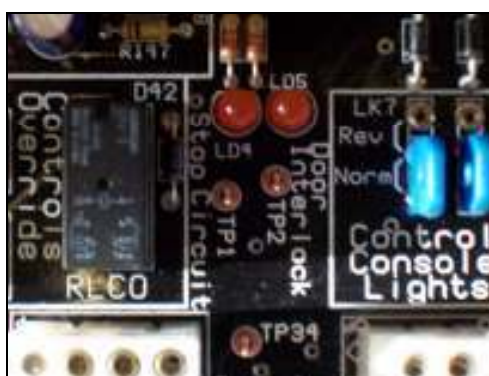


Fig 1

Stop and Door Interlock LED's are normally lit



Fig 2

Door interlock fail LED should not be lit

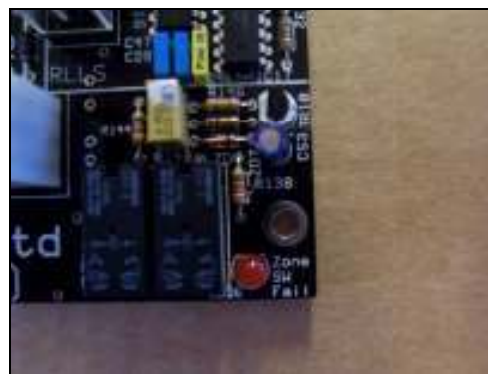


Fig 3

Zone switch fail LED should not be lit

LED STATUS	DESCRIPTION	POSSIBLE CAUSE
LD4 Not lit	Stop Circuit <b>Fig 1</b>	Check key switches and locking stop buttons.
LD5 Not lit	Door Interlock <b>Fig 1</b>	Check the door latch interlock switch and the magnetic reed switch.
LD25 Lit	Door Interlock Fail <b>Fig 2</b>	Ensure the door latch is not stuck up. Check that the door interlock switch is functioning correctly. Check that the user is not pushing down on the door safety edge as they are closing the door.
LD26 lit	Zone SW Fail <b>Fig 3</b>	Check that the lower floor limit is not stuck in. Check that the lower floor limit is not off the stop plate with the zone switch still engaged.



# Troubleshooting

**Product:** VM Service Documents  
**Document Ref:** VM00 5710  
**Description:** Troubleshooting

**Compiled by:** K.Farthing  
**Issue Number:** 2  
**Date:** 08 March 2007

## Lift Will Not Descend

If the lift will not descend after the above checks have been carried out the fault may be in one of the control surfaces on the lift. When the down button is pushed all 3 LED's shown in fig 4 should illuminate. If the lift will not travel push and hold the down button whilst observing the LED's. Use the table below to determine the possible cause if any of the LED's are not illuminated. LD 8, when lit, indicates that the down button is being pushed.



Fig 4

All 3 LED's should illuminate when down button pushed

LED STATUS	DESCRIPTION	POSSIBLE CAUSE
LD12 not lit LD13 not lit	Floating Platform Trap Assembly	Check the floating platform down safety switches and the wiring from the switches to the Circuit Board. All switches should be normally closed.
LD 13 not lit	Trap Assembly	Check the trap down safety switches and the wiring from the switches to the circuit board. All switches should be normally closed.

# Troubleshooting

Product: VM Service Documents  
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## Lift Will Not Ascend

If the lift will not ascend after the checks on the previous page have been carried out the fault may be in one of the control surfaces on the lift. When the up button is pushed all 4 LED's shown in fig 5 should illuminate. If the lift will not travel push and hold the up button whilst observing the LED's. Use the table below to determine the possible cause if any of the LED's are not illuminated. LD7, when lit, indicates that the up button is being pushed.



Fig 5

All 4LED's should illuminate when up button pushed

LED STATUS	DESCRIPTION	POSSIBLE CAUSE
LD 9 not lit LD10 not lit LD11 not lit	Floating Platform Car Safety Edges Trap Assembly	Check the floating platform up safety switches and the wiring from the switches to the Circuit Board. All switches should be normally closed.
LD10 not lit LD11 not lit	Car Safety Edges Trap Assembly	Check the lift car safety edge switches and all wiring back to the Circuit Board. All switches should be normally closed.
LD 11 not lit	Trap Assembly	Check the trap up safety switches and the wiring from the switches to the circuit board. All switches should be normally closed.

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SECTION 10

AMENDMENT RECORD

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## Document Amendment Record

**Product:** VM Range  
**Document Ref:** VM00 5720  
**Description:** Amendment Record

**Compiled by: K.Farthing**  
**Issue: 2**  
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